

Mineral Industry Surveys

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COPPER IN DECEMBER 2011

Average daily mine production of copper in December declined by about 11% from the high level in November, but was about equal to the 2011 average rate of 3,050 metric tons per day of recoverable copper. The 2011 full year production of 1.11 million metric tons (Mt) was essentially unchanged from that in 2010. Smelter and downstream electrolytically refined copper production, however, fell by 10% and 13%, respectively, to their lowest levels since 2006. Consumption of refined copper in 2011 was essentially unchanged from that in 2010, as lower consumption by brass mills was offset by increased consumption at wire-rod mills.

The stagnant demand for refined copper, however, did not necessarily reflect domestic demand for downstream semifabricated products. Apparent consumption for wire rod (shipments plus net imports), the leading use for refined copper, increased by about 5% [58,000 metric tons (t)] in 2011 compared with that in 2010, as the United States went from being a net exporter of wire rod to a net importer. Gains in the wire-rod market, however, were partially offset by slightly lower apparent consumption for brass mill products, which, based on brass mill product trade data compiled by the Copper and Brass Fabricators Council Inc. (2011, p. 9) and U.S. Geological Survey brass mill shipment data (table 7), declined by about 20,000 t.

According to preliminary data compiled by the International Copper Study Group (2012), world mine production of copper in 2011 of 16.0 Mt was essentially unchanged from that in 2010. World mine capacity continued to trend upward, but owing to increased labor unrest, operational failures, and lower ore

grades, production remained stagnant and capacity utilization continued to decline, falling to about 79%. Owing to increases in both primary and secondary production, world refined copper production rose by more than 3% (630,000 t) to a record-high 19.6 Mt. For the second consecutive year, however, world consumption of refined copper, which also grew by about 3%, exceeded production by about 350,000 t. Global refined inventories at yearend 2011 remained essentially unchanged from those held at yearend 2010, indicating the likely drawdown of unreported inventories. Apparent consumption in China (40% market share in 2011) and apparent consumption in Russia (4% market share) increased by about 7% and 59%, respectively, and accounted for most of the increase in consumption. The large increase in Russian consumption was attributed to new export tariffs on refined copper that encouraged conversion to wire rod before export. In 2011, the United States imported about 28,000 t of wire rod from Russia, compared with no imports in 2010. Consumption of refined copper in the European Union declined slightly, and consumption in Japan fell by 5% owing to the disruptions caused by the earthquake and tsunami.

References Cited

- Copper and Brass Fabricators Council Inc., 2011, Copper and brass products import/export report—December 2011: Washington, DC, Copper and Brass Fabricators Council Inc., February, 232 p.
- International Copper Study Group, 2012, Copper—Preliminary data for 2011: Lisbon, Portugal, International Copper Study Group press release, March 20, 1 p.

TABLE 1
SALIENT STATISTICS OF THE COPPER INDUSTRY IN THE UNITED STATES¹

(Metric tons, unless otherwise specified)

	Source table ²	2010 ^p	2011			
			October	November	December	January– December
Production:						
Primary:						
Mine, recoverable	(2)	1,110,000	98,300 ^r	103,000 ^r	94,900	1,110,000
Refinery:						
Electrolytic, domestic and foreign	(4)	627,000	46,200	50,700	53,700	545,000
Electrowon	(4)	430,000	40,400	41,300	40,200	449,000
Total	(4)	1,060,000	86,500	92,100	93,800	994,000
Secondary recoverable copper:						
Refineries	(5)	37,700	3,110	3,010	2,630	37,300
Ingot makers ³	(5)	71,500	5,960	5,960	5,960	71,500
Brass and wire-rod mills	(5)	565,000	46,200	46,300	46,900	571,000
Foundries, etc. ³	(5)	46,000	3,830	3,830	3,830	46,000
Smelter, total	(3)	601,000	51,900	47,900	45,600	538,000
Consumption:						
Apparent	(8)	1,740,000	136,000	141,000	126,000	1,710,000
Refined (reported)	(7)	1,760,000	146,000	140,000	129,000	1,750,000
Purchased copper-base scrap	(9)	915,000	75,600	76,000 ^r	75,900	924,000
Stocks at end of period:						
Total refined	(10)	384,000	383,000	387,000	409,000	409,000
Blister, etc.	(10)	21,100	18,500	14,500	13,000	13,000
Prices, U.S. producer cathode (cents per pound) ⁴	(11)	348.337	340.186	350.045	349.033	405.854
Imports: ⁵						
Ore and concentrate ⁶	(13)	1,390	781	3	781	15,100
Refined	(13)	605,000	46,700	50,300	48,900	670,000
Exports: ⁵						
Ore and concentrate ⁶	(14)	137,000	13,700	23,900	26,500	252,000
Refined	(14)	78,300	2,350	6,870	4,690	40,400

^pPreliminary. ^rRevised.

¹Data are rounded to no more than three significant digits, except prices; may not add to totals shown.

²Numbers in parentheses refer to the significant tables where these data are located.

³Monthly data estimated based on 2010 monthly average.

⁴Source: Platts Metals Week.

⁵Source: U.S. Census Bureau.

⁶Copper content.

TABLE 2
MINE PRODUCTION OF RECOVERABLE COPPER IN THE UNITED STATES¹

(Metric tons)

Period	Recoverable copper			Contained copper		
	Arizona	Others ²	Total	Electrowon	Concentrates ³	Total
2010: ^P						
December	63,600	31,500	95,100	35,400	61,900	97,300
January–December	703,000	406,000	1,110,000	430,000	701,000	1,130,000
2011:						
January	57,300	33,100	90,400	33,500	58,900	92,400
February	53,000	29,400	82,400	31,100	53,200	84,300
March	60,800	31,000	91,800	37,100	56,800	93,900
April	59,300	23,600	82,900	35,500	49,300	84,800
May	66,500	32,300	98,800	38,800	62,400	101,000
June	63,900	29,600	93,500	38,600	57,100	95,700
July	61,900	30,200	92,200	36,600	57,800	94,400
August	65,000	27,300	92,400	38,100	56,600	94,700
September	64,400	27,600	91,900	37,700	56,500	94,100
October	66,500	31,800 ^r	98,300 ^r	40,400	60,400 ^r	101,000 ^r
November	67,100	35,800 ^r	103,000 ^r	41,300	63,800 ^r	105,000
December	65,600	29,300	94,900	40,200	56,900	97,100
January–December	751,000	361,000	1,110,000	449,000	690,000	1,140,000

^PPreliminary. ^rRevised.

¹Data are rounded to no more than three significant digits; may not add to totals shown.

²Includes production from Idaho, Missouri, Montana, Nevada, New Mexico, and Utah.

³Includes copper content of precipitates and other metal concentrates.

TABLE 3
COPPER PRODUCED AT SMELTERS IN
THE UNITED STATES^{1, 2}

(Metric tons, copper content)

Period	Anode production
2010: ^P	
December	50,600
January–December	601,000
2011:	
January	52,100
February	42,000
March	43,000
April	40,500
May	47,200
June	33,400
July	44,100
August	41,100
September	49,500
October	51,900
November	47,900
December	45,600
January–December	538,000

^PPreliminary.

¹Includes blister and copper anode from primary or secondary sources.

²Data are rounded to no more than three significant digits; may not add to total shown.

TABLE 4
PRODUCTION OF REFINED COPPER, BY SOURCE AND METHOD OF RECOVERY¹

(Metric tons)

Period	Primary materials			Scrap	Total refined
	Electrolytically refined ²	Electrowon	Total		
2010: ^p					
December	50,900	35,400	86,300	2,850	89,200
January–December	627,000	430,000	1,060,000	37,700	1,090,000
2011:					
January	49,500	33,500	83,000	3,830	86,800
February	42,200	31,100	73,300	2,970	76,300
March	44,500	37,100	81,700	3,240	84,900
April	41,200	35,500	76,700	2,970	79,700
May	40,900	38,800	79,700	3,240	82,900
June	44,800	38,600	83,400	3,060	86,400
July	39,600	36,600	76,200	3,030	79,200
August	38,400	38,100	76,500	3,200	79,700
September	53,000	37,700	90,600	3,010	93,600
October	46,200	40,400	86,500	3,110	89,600
November	50,700	41,300	92,100	3,010	95,100
December	53,700	40,200	93,800	2,630	96,500
January–December	545,000	449,000	994,000	37,300	1,030,000

^pPreliminary.

¹Data are rounded to no more than three significant digits; may not add to totals shown.

²From domestic and foreign source materials.

TABLE 5
COPPER RECOVERABLE IN UNALLOYED AND ALLOYED FORM FROM PURCHASED COPPER-BASE SCRAP¹

(Metric tons, copper content)

Period	Refineries ²		Ingot makers ³		Brass and wire-rod mills		Foundries, etc. ³		Total ⁴
	New scrap	Old scrap	New scrap	Old scrap	New scrap	Old scrap	New scrap	Old scrap	
2010: ^p									
December	1,390	1,470	972	4,990	39,100	1,420	2,730	1,110	53,200
January–December	19,100	18,600	11,700	59,800	548,000	17,200	32,700	13,300	720,000
2011:									
January	2,040	1,790	972	4,990	48,900	1,500	2,730	1,110	64,100
February	1,460	1,500	972	4,990	45,200	1,480	2,730	1,110	59,400
March	1,690	1,540	972	4,990	46,800	1,530	2,730	1,110	61,400
April	1,480	1,490	972	4,990	48,000	1,530	2,730	1,110	62,300
May	1,700	1,540	972	4,990	46,200	1,420	2,730	1,110	60,700
June	1,540	1,520	972	4,990	46,300	1,420	2,730	1,110	60,500
July	1,530	1,500	972	4,990	45,200	1,470	2,730	1,110	59,500
August	1,650	1,550	972	4,990	44,300	1,420	2,730	1,110	58,700
September	1,510	1,500	972	4,990	46,900	1,490	2,730	1,110	61,200
October	1,590	1,520	972	4,990	44,700	1,500	2,730	1,110	59,100
November	1,510	1,500	972	4,990	45,500 ^r	1,420	2,730	1,110	59,700 ^r
December	1,180	1,450	972	4,990	45,400	1,480	2,730	1,110	59,300
January–December	18,900	18,400	11,700	59,800	553,000	17,600	32,700	13,300	726,000

^pPreliminary. ^rRevised.

¹Data are rounded to no more than three significant digits; may not add to totals shown.

²Electrolytically refined and fire-refined from scrap based on source of material at smelter or refinery level.

³Monthly data and 2011 cumulative data estimated based on 2010 annual data.

⁴Does not include an estimate, based on reported 2010 data, of 2,530 tons per month from new scrap and 1,840 tons per month from old scrap, of copper recovered from scrap other than copper-base.

TABLE 6
PRODUCTION, SHIPMENTS, AND STOCKS OF BRASS AND WIRE-ROD SEMIFABRICATES¹

(Metric tons, gross weight)

Period	Production		Shipments		Stocks, end of period	
	Brass mills	Wire-rod mills	Brass mills	Wire-rod mills	Brass mills	Wire-rod mills
2010: ^p						
December	75,100	90,100	74,900	80,900	30,100	24,300
January–December	956,000	1,250,000	958,000	1,240,000	30,100	24,300
2011:						
January	80,700	109,000	81,000	110,000	29,800	23,800
February	77,700	107,000	78,500	103,000	29,000	28,300
March	83,900	105,000	82,100	113,000	30,900	20,500
April	79,300	111,000	80,100	107,000	30,100	24,000
May	79,500	109,000	79,900	105,000	29,600	28,100
June	81,000	109,000	81,300	109,000	29,300	27,500
July	76,700	98,200	76,800	96,200	29,200	29,500
August	79,400	104,000	79,300	107,000	29,300	25,600
September	79,300	104,000	77,900	104,000	30,700	25,100
October	78,100	106,000	78,400	110,000	30,300	21,600
November	77,100	98,600	77,800	97,400	29,600	22,800
December	77,900	91,400	77,600	87,200	29,900	27,000
January–December	951,000	1,250,000	951,000	1,250,000	29,900	27,000

^pPreliminary.

¹Data are rounded to no more than three significant digits; may not add to totals shown.

TABLE 7
CONSUMPTION OF REFINED COPPER¹

(Metric tons)

Period and item	Brass mills	Wire-rod mills	Other plants ²	Total
2010: ^p				
December	35,800	90,000	4,800	131,000
January–December	459,000	1,250,000	57,600	1,760,000
2011:				
January	37,500	110,000	4,800	153,000
February	35,900	108,000	4,800	149,000
March	36,800	109,000	4,800	151,000
April	36,700	110,000	4,800	152,000
May	35,300	111,000	4,800	151,000
June	36,400	110,000	4,800	151,000
July	36,000	100,000	4,800	141,000
August	35,700	107,000	4,800	148,000
September	35,200	106,000	4,800	146,000
October	34,300	107,000	4,800	146,000
November	36,200	99,500	4,800	140,000
December:				
Cathodes	26,200	89,600	1,470	117,000
Wire bars	--	--	(3)	(3)
Ingots and ingot bars	1,240	--	1,440	2,680
Cakes and slabs	(3)	--	(3)	(3)
Billets and other	6,680	--	1,900	8,580
Total	34,200	89,600	4,800	129,000
January–December	430,000	1,270,000	57,600	1,750,000

^pPreliminary. -- Zero.

¹Data are rounded to no more than three significant digits; may not add to totals shown.

²Monthly and 2011 cumulative consumption data by ingot makers, chemical plants, foundries, and miscellaneous manufacturers is estimated based on 2010 annual data.

³Withheld to avoid disclosing company proprietary data; included with "Billets and other."

TABLE 8
U.S. APPARENT CONSUMPTION OF COPPER¹

(Metric tons)

Period	Refined copper production	Copper in old scrap ²	Refined general imports ³	Refined exports ³	Stock change during period	Apparent consumption
2010: ^P						
December	86,300	10,800	63,300	5,690	28,000	127,000
January–December	1,060,000	131,000	583,000	78,300	(50,400)	1,740,000
2011:						
January	83,000	11,200	54,200	1,640	(1,700)	148,000
February	73,300	10,900	46,100	5,010	432	125,000
March	81,700	11,000	65,300	3,130	(10,600)	165,000
April	76,700	10,900	70,100	2,120	(6,240)	162,000
May	79,700	10,900	61,500	3,500	(827)	149,000
June	83,400	10,900	42,400	1,930	(5,560)	140,000
July	76,200	10,900	68,900	1,850	9,070	145,000
August	76,500	10,900	31,300	5,140	1,160	112,000
September	90,600	10,900	64,300	2,140	7,510	156,000
October	86,500	11,000	46,700	2,350	5,660	136,000
November	92,100	10,800	49,200	6,870	3,780	141,000
December	93,800	10,900	48,800	4,690	22,300	126,000
January–December	994,000	131,000	649,000	40,400	25,100	1,710,000

^PPreliminary.

¹Data are rounded to no more than three significant digits; may not add to totals shown.

²Includes reported monthly production of copper from old scrap of copper-base, an estimate for annual reporters, and a monthly average of copper from non-copper-base materials based on 2010 data.

³Source: U.S. Census Bureau.

TABLE 9
CONSUMPTION OF PURCHASED COPPER-BASE SCRAP¹

(Metric tons, gross weight)

Period	Smelters and refineries		Ingot makers ²		Brass and wire-rod mills ³		Foundries, etc. ²		Total scrap used
	New scrap	Old scrap	New scrap	Old scrap	New scrap	Old scrap	New scrap	Old scrap	
2010: ^P									
December	1,430	1,510	2,880	6,440	48,400	1,430	4,020	1,490	67,600
January–December	20,100	18,800	34,500	77,200	681,000	17,500	48,200	17,900	915,000
2011:									
January	2,270	1,680	2,880	6,440	60,500	1,570	4,020	1,490	80,800
February	1,530	1,530	2,880	6,440	56,500	1,540	4,020	1,490	75,900
March	1,750	1,590	2,880	6,440	58,700	1,610	4,020	1,490	78,400
April	1,530	1,540	2,880	6,440	59,500	1,610	4,020	1,490	79,000
May	1,750	1,590	2,880	6,440	57,800	1,430	4,020	1,490	77,400
June	1,610	1,550	2,880	6,440	57,700	1,430	4,020	1,490	77,100
July	1,570	1,550	2,880	6,440	55,900	1,520	4,020	1,490	75,400
August	1,720	1,580	2,880	6,440	54,900	1,430	4,020	1,490	74,400
September	1,560	1,540	2,880	6,440	58,200	1,540	4,020	1,490	77,600
October	1,640	1,560	2,880	6,440	56,000	1,560	4,020	1,490	75,600
November	1,560	1,540	2,880	6,440	56,600 ^r	1,430	4,020	1,490	76,000 ^r
December	1,250	1,460	2,880	6,440	56,800	1,540	4,020	1,490	75,900
January–December	19,700	18,700	34,500	77,200	689,000	18,200	48,200	17,900	924,000

^PPreliminary. ^rRevised.

¹Data are rounded to no more than three significant digits; may not add to totals shown.

²Monthly data estimated from 2010 annual data.

³Consumption at brass and wire-rod mills assumed equal to receipts.

TABLE 10
COPPER STOCKS AT END OF PERIOD¹

(Metric tons)

Period	Crude copper ²	Refined copper						Total refined
		Refineries ³	Wire-rod mills ³	Brass mills ³	Other ⁴	Comex	LME ⁵	
2010: ^p								
December	21,100	10,300	19,700	6,400	4,380	58,600	284,000	384,000
2011:								
January	25,200	11,700	17,600	7,470	4,380	64,100	277,000	382,000
February	24,800	9,220	12,800	8,420	4,380	75,200	273,000	383,000
March	24,700	6,360	18,200	7,050	4,380	76,900	259,000	372,000
April	24,900	5,060	18,100	7,240	4,380	75,500	256,000	366,000
May	27,200	6,180	21,900	7,500	4,380	73,500	251,000	365,000
June	20,100	5,740	21,000	7,860	4,380	72,700	248,000	359,000
July	20,100	5,570	16,400	8,160	4,380	75,100	259,000	368,000
August	13,000	5,990	20,200	7,440	4,380	77,500	254,000	370,000
September	14,300	7,050	18,100	7,160	4,380	79,400	261,000	377,000
October	18,500	5,890	16,200	8,690	4,380	81,600	266,000	383,000
November	14,500	7,980	17,200	6,940	4,380	79,000	271,000	387,000
December	13,000	8,360	24,000	6,850	4,380	79,800	286,000	409,000

^pPreliminary.

¹Data are rounded to no more than three significant digits; may not add to totals shown.

²Copper content of blister and anode.

³Stocks of refined copper as reported; no estimates are made for nonrespondents.

⁴Monthly estimates based on reported and 2010 annual data, comprising stocks at ingot makers, chemical plants, foundries, and miscellaneous manufacturers.

⁵London Metal Exchange Ltd., U.S. warehouses.

TABLE 11
AVERAGE PRICE OF COPPER IN THE UNITED STATES
AND ON THE LONDON METAL EXCHANGE

(Cents per pound)

Period	U.S. producers delivered price cathode ¹	Comex first position ²	LME cash price Grade A
2010:			
December	422.799	416.973	414.885
Year	348.337	342.511	341.744
2011:			
January	440.254	434.428	433.403
February	454.992	449.166	447.567
March	437.780	431.954	432.278
April	436.264	430.438	430.136
May	411.383	405.557	404.898
June	416.740	410.914	410.279
July	445.951	440.125	436.301
August	413.683	407.857	410.084
September	379.602	373.776	377.131
October	340.186	334.360	333.259
November	350.045	344.219	342.524
December	349.033	343.207	343.240
Year	405.854	400.050	399.790

¹Listed as "U.S. producer cathode."

²Listed as "Comex high grade first position."

Source: Platts Metals Week.

TABLE 12
NEW YORK AVERAGE BUYING PRICES FOR COPPER SCRAP

(Cents per pound)

			Dealers (New York)	
	Brass mills	Refiners	No. 2	Red brass
Month	No. 1 scrap	No. 2 scrap	Scrap	turnings and borings
2010:				
December ^f	398.47	351.11	264.61	165.79
Year ^f	332.16	303.95	255.21	165.46
2011:				
January	417.40	364.60	291.25	176.25
February	432.47	375.63	317.50	195.00
March	418.96	365.30	316.30	188.26
April	418.19	374.19	317.14	180.00
May	394.71	358.81	309.64	180.00
June	401.45	370.09	319.09	180.00
July	426.65	396.95	335.25	197.50
August	395.87	354.78	322.83	205.00
September	363.48	329.52	304.29	201.19
October	326.38	298.38	242.98	185.00
November	334.20	308.75	269.00	185.00
December	335.16	308.16	268.42	185.00
Year	389.12	350.72	301.67	188.28

^fRevised.

Source: American Metal Market.

TABLE 13
U.S. IMPORTS FOR CONSUMPTION OF COPPER (UNMANUFACTURED), BY CLASS¹
(Metric tons, copper content)

Country or territory	Ore and concentrate			Matte, ash, and precipitates			Blister and anodes			Refined		
	2011			2011			2011			2011		
	2010	November	January– November	2010	November	January– November	2010	November	January– November	2010	November	January– November
Belgium	9	--	--	47	28	146	--	--	--	(2)	--	1
Brazil	--	--	--	--	--	--	--	--	--	1,980	--	--
Canada	1,270	3	8,430	310	8	200	21,700	--	2	168,000	14,900	123,000
Chile	--	--	--	--	--	--	--	--	--	308,000	20,600	348,000
Finland	--	--	--	--	--	--	348	18	292	1	--	(2)
Germany	--	--	--	--	--	54	(2)	--	--	3,180	231	2,830
Japan	--	--	--	3	--	(2)	15	1	15	4,990	357	5,190
Kuwait	--	--	--	138	--	--	--	--	--	--	--	--
Mexico	17	--	6,710	--	--	--	3,990	--	--	19,200	8,570	87,500
Netherlands	87	--	--	136	--	126	3	--	1	--	--	(2)
Peru	--	--	--	--	--	--	--	--	--	97,100	5,610	53,700
Other	14	--	--	206	10	287	160	(2)	141	2,400	20	1,060
Total	1,390	3	15,100	840	46	813	26,300	19	451	605,000	50,300	621,000

-- Zero.

¹Data are rounded to no more than three significant digits; may not add to totals shown.

²Less than ½ unit.

Source: U.S. Census Bureau.

TABLE 13a
U.S. IMPORTS FOR CONSUMPTION OF COPPER (UNMANUFACTURED), BY CLASS¹

(Metric tons, copper content)

Country or territory	Ore and concentrate			Matte, ash, and precipitates			Blister and anodes			Refined		
	2011			2011			2011			2011		
	2010	December	January-- December	2010	December	January-- December	2010	December	January-- December	2010	December	January-- December
Belgium	9	--	--	47	55	200	--	--	--	(2)	--	1
Brazil	--	--	--	--	--	--	--	--	--	1,980	--	--
Canada	1,270	--	8,430	310	38	239	21,700	--	2	168,000	14,500	138,000
Chile	--	--	--	--	--	--	--	--	--	308,000	22,700	370,000
Finland	--	--	--	--	--	--	348	18	310	1	--	(2)
Germany	--	--	--	--	--	54	(2)	(2)	(2)	3,180	194	3,020
Japan	--	--	--	3	--	(2)	15	1	16	4,990	352	5,540
Kuwait	--	--	--	138	--	--	--	--	--	--	--	--
Mexico	17	--	6,710	--	--	--	3,990	--	--	19,200	9,560	97,100
Netherlands	87	--	--	136	67	193	3	1	1	--	--	(2)
Peru	--	--	--	--	--	--	--	--	--	97,100	1,530	55,200
Other	14	--	--	206	10	297	160	--	142	2,400	24	1,090
Total	1,390	--	15,100	840	170	983	26,300	20	471	605,000	48,900	670,000

-- Zero.

¹Data are rounded to no more than three significant digits; may not add to totals shown.

²Less than ½ unit.

Source: U.S. Census Bureau.

TABLE 14
U.S. EXPORTS OF COPPER (UNMANUFACTURED), BY CLASS¹

(Metric tons, copper content)

Country or territory	Ore and concentrate			Matte, ash and precipitates			Blister and anodes			Refined		
	2011			2011			2011			2011		
	2010	November	January– November	2010	November	January– November	2010	November	January– November	2010	November	January– November
Canada	12,800	1,300	13,200	41,400	2,150	34,400	6,010	412	4,230	8,030	513	3,680
China	82,300	12,300	82,600	455	58	1,160	294	47	586	34,300	769	3,450
Germany	18	5	110	846	--	402	2,160	41	871	30	8	78
Hong Kong	--	--	17	--	--	--	1,740	99	1,150	4,690	4	19
Italy	--	--	--	39	--	--	60	20	164	12,300	--	1,470
Japan	9,610	47	18,100	100	--	172	1,920	90	787	39	--	11
Korea, Republic of	3,100	--	--	--	--	--	659	36	725	113	--	104
Mexico	24,700	10,200	107,000	--	--	--	670	18	227	16,100	5,490	24,900
Singapore	(2)	--	--	--	--	--	107	--	411	2	--	--
Spain	--	--	6	122	--	--	140	21	228	20	--	630
Sweden	--	--	--	--	--	--	9	--	2	--	37	268
Switzerland	3,730	--	--	--	--	--	22	--	21	5	1	3
Taiwan	1	--	1	--	--	--	454	102	652	800	--	7
Other	304	89	4,520	969	--	569	2,620	165	3,400	1,900	47	1,020
Total	137,000	23,900	226,000	44,000	2,210	36,700	16,900	1,050	13,400	78,300	6,870	35,700

-- Zero.

¹Data are rounded to no more than three significant digits; may not add to totals shown.

²Less than ½ unit.

Source: U.S. Census Bureau.

TABLE 14a
U.S. EXPORTS OF COPPER (UNMANUFACTURED), BY CLASS¹

(Metric tons, copper content)

Country or territory	Ore and concentrate			Matte, ash and precipitates			Blister and anodes			Refined		
	2011			2011			2011			2011		
	2010	December	January– December	December	December	January– December	2010	December	January– December	2010	December	January– December
Canada	12,800	1,070	14,300	41,400	1,470	35,900	6,010	214	4,440	8,030	296	3,980
China	82,300	14,400	97,000	455	35	1,190	294	30	616	34,300	1,010	4,460
Germany	18	--	110	846	--	402	2,160	40	911	30	2	81
Hong Kong	--	--	17	--	--	--	1,740	--	1,150	4,690	--	19
Italy	--	--	--	39	--	--	60	12	176	12,300	9	1,480
Japan	9,610	3,920	22,000	100	--	172	1,920	74	862	39	--	11
Korea, Republic of	3,100	--	--	--	--	--	659	36	761	113	--	104
Mexico	24,700	7,100	114,000	--	--	--	670	29	255	16,100	2,820	27,800
Singapore	(2)	--	--	--	--	--	107	20	431	2	--	--
Spain	--	--	6	122	--	--	140	--	228	20	405	1,040
Sweden	--	--	--	--	--	--	9	--	2	--	116	384
Switzerland	3,730	--	--	--	--	--	22	--	21	5	1	3
Taiwan	1	--	1	--	--	--	454	147	799	800	--	7
Other	304	37	4,550	969	40	609	2,620	215	3,610	1,900	33	1,050
Total	137,000	26,500	252,000	44,000	1,550	38,300	16,900	817	14,300	78,300	4,690	40,400

-- Zero.

¹Data are rounded to no more than three significant digits; may not add to totals shown.

²Less than ½ unit.

Source: U.S. Census Bureau.

TABLE 15
U.S. COPPER SCRAP IMPORTS¹

(Metric tons, gross weight)

Country or territory	Unalloyed			Alloyed		
	2011			2011		
	2010	November	January– November	2010	November	January– November
Canada	9,010	998	13,700	32,500	3,160	32,600
Chile	--	--	39	80	21	393
Costa Rica	867	50	796	2,100	164	2,120
Guatemala	651	38	618	1,070	206	1,730
Honduras	20	--	47	701	97	936
Jamaica	237	--	95	361	7	325
Japan	14	--	16	9	1	30
Mexico	5,850	524	7,830	29,900	2,530	26,100
Nicaragua	1,270	73	1,030	1,330	52	952
Other	3,470	298	4,240	6,370	747	8,780
Total	21,400	1,980	28,400	74,500	6,990	73,900

-- Zero.

¹Data are rounded to no more than three significant digits; may not add to totals shown.

Source: U.S. Census Bureau.

TABLE 15a
U.S. COPPER SCRAP IMPORTS¹

(Metric tons, gross weight)

Country or territory	Unalloyed			Alloyed		
	2011			2011		
	2010	December	January– December	2010	December	January– December
Canada	9,010	899	14,600	32,500	2,220	34,800
Chile	--	--	39	80	10	403
Costa Rica	867	38	834	2,100	181	2,300
Guatemala	651	47	666	1,070	227	1,960
Honduras	20	--	47	701	124	1,060
Jamaica	237	--	95	361	--	325
Japan	14	13	29	9	4	33
Mexico	5,850	560	8,390	29,900	2,310	28,400
Nicaragua	1,270	46	1,080	1,330	17	968
Other	3,470	376	4,620	6,370	430	9,210
Total	21,400	1,980	30,400	74,500	5,520	79,400

-- Zero.

¹Data are rounded to no more than three significant digits; may not add to totals shown.

Source: U.S. Census Bureau.

TABLE 16
U.S. COPPER SCRAP EXPORTS¹
(Metric tons, gross weight)

Country or territory	Unalloyed							Alloyed				
	2011							2011				
	No. 1		No. 2		Other			Segregated		Unsegregated		
	2010	November	January– November	November	January– November	November	January– November	2010	November	January– November	November	January– November
Belgium	11,000	452	4,790	215	5,950	110	1,650	19,900	255	1,080	1,560	12,100
Canada	15,500	--	--	--	--	1,700	19,000	29,900	243	2,810	4,070	32,800
China	247,000	5,940	69,500	17,200	187,000	9,810	96,600	512,000	20,200	232,000	24,700	279,000
Germany	4,190	793	3,700	--	2,610	104	655	9,570	118	2,270	860	10,700
Hong Kong	10,300	94	1,250	417	3,580	19	681	44,500	845	9,590	1,280	16,200
India	965	--	916	20	256	20	502	17,900	579	9,630	19	1,940
Japan	7,180	311	3,160	135	1,390	392	3,520	9,900	656	4,730	198	2,290
Korea, Republic of	13,300	218	5,450	676	8,040	404	4,550	17,600	850	15,200	18	710
Mexico	4,090	8	840	119	2,040	40	168	7,090	29	299	1,230	6,160
Spain	2,890	176	2,300	194	2,030	--	225	8,630	54	1,910	946	8,830
Taiwan	2,940	34	575	236	2,610	20	480	2,790	276	2,340	74	840
Thailand	924	40	461	--	--	--	--	413	--	1,800	--	214
Other	12,900	1,590	16,700	517	5,580	33	609	19,700	499	4,290	1,890	19,600
Total	334,000	9,660	110,000	19,700	222,000	12,600	129,000	699,000	24,600	288,000	36,800	391,000

-- Zero.

¹Data are rounded to no more than three significant digits; may not add to totals shown.

Source: U.S. Census Bureau.

TABLE 16a
U.S. COPPER SCRAP EXPORTS¹

(Metric tons, gross weight)

Country or territory	Unalloyed							Alloyed				
	2011							2011				
	No. 1		No. 2		Other			Segregated		Unsegregated		
	2010	December	January– December	December	January– December	December	January– December	2010	December	January– December	December	January– December
Belgium	11,000	1,130	5,930	369	6,320	497	2,150	19,900	116	1,200	1,010	13,100
Canada	15,500	--	--	--	--	1,420	20,400	29,900	132	2,940	2,260	35,100
China	247,000	5,050	74,500	15,300	203,000	9,690	106,000	512,000	19,600	251,000	27,100	306,000
Germany	4,190	1,140	4,830	293	2,900	78	733	9,570	156	2,420	805	11,500
Hong Kong	10,300	61	1,310	381	3,960	19	699	44,500	1,100	10,700	2,100	18,300
India	965	--	916	20	276	--	502	17,900	535	10,200	40	1,980
Japan	7,180	219	3,380	78	1,470	451	3,970	9,900	320	5,050	136	2,430
Korea, Republic of	13,300	289	5,730	533	8,580	279	4,830	17,600	1,170	16,400	19	729
Mexico	4,090	22	862	59	2,100	16	184	7,090	24	323	513	6,680
Spain	2,890	279	2,580	176	2,210	166	390	8,630	184	2,090	669	9,490
Taiwan	2,940	47	622	287	2,890	169	649	2,790	178	2,520	40	880
Thailand	924	30	49	--	--	--	--	413	--	1,800	18	231
Other	12,900	1,440	18,600	794	5,380	55	662	19,700	253	4,540	1,220	20,800
Total	334,000	9,710	119,000	18,300	239,000	12,800	141,000	699,000	23,800	312,000	35,900	427,000

-- Zero.

¹Data are rounded to no more than three significant digits; may not add to totals shown.

Source: U.S. Census Bureau.